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**BEFORE THE BOARD OF PATENT APPEALS
AND INTERFERENCES**

Application Number: 10/579,158
Filing Date: May 12, 2006
Appellant(s): DEES, WALTER

Dicran Halajian
For Appellant

EXAMINER'S ANSWER

This is in response to the appeal brief filed November 10, 2009 appealing from the Office action mailed June 15, 2009.

(1) Real Party in Interest

A statement identifying by name the real party in interest is contained in the brief.

(2) Related Appeals and Interferences

The examiner is not aware of any related appeals, interferences, or judicial proceedings which will directly affect or be directly affected by or have a bearing on the Board's decision in the pending appeal.

(3) Status of Claims

The statement of the status of claims contained in the brief is correct.

(4) Status of Amendments After Final

The appellant's statement of the status of amendments after final rejection contained in the brief is correct.

(5) Summary of Claimed Subject Matter

The summary of claimed subject matter contained in the brief is correct.

(6) Grounds of Rejection to be Reviewed on Appeal

The appellant's statement of the grounds of rejection to be reviewed on appeal is correct.

(7) Claims Appendix

The copy of the appealed claims contained in the Appendix to the brief is correct.

(8) Evidence Relied Upon

7,027,881	Yumoto et al.	04-2006
2002/0514161	Friedman et al.	10-2002

(9) Grounds of Rejection

The following ground(s) of rejection are applicable to the appealed claims:

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yumoto et al., US 7,027,881 (Hereinafter, Yumoto) in view of Friedman et al., US 2002/0154161 (Hereinafter, Friedman).

Regarding Claim 1, Yumoto discloses, “a method for a consistent user interface (CUI) on a control device providing access to at least one network device having a remote user interface (RUI)”. Specifically, Yumoto discloses a network-dedicated terminal device also provided with a display section for allowing GUI operations, and it

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is sufficiently possible for the terminal device to function as a control device if a function capable of connection with the communication path is provided (Yumoto, col 7, ln 1-11).

Yumoto also discloses, "providing the CUI to the control device". Specifically, required operation can be performed on the GUI displayed on the display section by using operation keys provided in the main unit (Yumoto, col 6, ln 60-65).

Yumoto also discloses, "mapping the RUI to the CUI by the control device by replacing the RUI with a synonym that matches the RUI, the synonym being included in a synonym database". Specifically, the conversion-into-remote-controller process is a processing sequence performed by the control device and the device to be controlled in cooperation in order that an electronic device serving as a control device is made to function as a remote controller capable of controlling a specific device to be controlled (Yumoto, col 11, ln 15-20).

Yumoto also discloses, "displaying by the control device at least a part of the CUI that includes the synonym instead of the RUI as a user interface to the network device". Specifically, Then, in the cellular phone 1, in the process of step S117, by using the received conversion-into-remote-controller data, a GUI used for an operation for remotely controlling the audio component device 2 is created (Yumoto, col 14, ln 50-55).

Yumoto also discloses, "wherein the CUI is more consistent with user interfaces of further network device so that the control device presents a user the user interface that includes the CUI for controlling the network device and the further devices". Figure 8 of Yumoto shows a consistent user interface for a remote user interface created by a

remote control device that can be used to control various devices. Figure 9 is an example of GUT on the remote control device.

Yumoto does not disclose “a synonym that matches the RUI, the synonym being included in a synonym database”. However, Friedman remedies this with the disclosure of a database for storing canonical user interface descriptions. This database is used to construct user interfaces for a Universal Console (Friedman, ¶0027). It would be obvious to one of ordinary skill in the art to add this database to the universal control device of Yumoto. The motivation to do so would be so the UC device 200 is capable of recognizing both the action-commands to which the device responds including parameters and as well as the decisions, selections, and input the user needs to provide for the UC 200 to determine which action-commands to send and the values of the action-command parameters (Friedman, ¶0030).

Regarding Claim 2, Yumoto also discloses, “the method of claim 1, wherein: the providing act further comprises the acts of: receiving by the control device an RUI definition comprising at least one RUI component”. Specifically, Yumoto discloses in step S208, the cellular phone 1 receives the conversion-into-remote-controller data (Yumoto, col 17, ln 10-15).

Yumoto also discloses, “the mapping act further comprises the act of replacing the received at least one RUI component with said pre-set synonym CUI component by the control device whenever the control device displays a user interface to the network device”. Specifically, after the function is switched to the tuner in the process of step

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S205 in the above-described manner, in the process of step S206, conversion-into-remote-controller data for the GUT corresponding to the function of the tuner is created (Yumoto, col 16, ln 60-65).

Yumoto does not specifically disclose, “providing the CUI comprising at least one CUI component pre-set as a synonym for said at least one RUI component”. However, Friedman remedies this with the disclosure of a database for storing canonical user interface descriptions. This database is used to construct user interfaces for a Universal Console (Friedman, ¶0027). It would be obvious to one of ordinary skill in the art to add this database to the universal control device of Yumoto. The motivation to do so would be so the UC device 200 is capable of recognizing both the action-commands to which the device responds including parameters and as well as the decisions, selections, and input the user needs to provide for the UC 200 to determine which action-commands to send and the values of the action-command parameters (Friedman, ¶0030).

Regarding Claim 3, Yumoto also discloses, “the method of claim 2, further comprising the act of transmitting the RUI definition by the at least one network device” (Yumoto, col 7, ln 33-40).

Regarding Claim 4, Yumoto also discloses, “the method of claim 3, wherein said transmitting act further comprises the act of on power-up, transmitting the RUI definition by the at least one network device”. Specifically, Yumoto discloses the device analysis

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(Yumoto, col 13, ln 35-40). This phase is not the first, but it would be obvious to one of ordinary skill in the art at the time of the invention this phase first. The motivation to do so is that Yumoto states that authentication may be omitted (Yumoto, col 19, ln 15-16) and that list creation may be omitted (Yumoto, col 19, ln 4-6) making the device analysis phase first.

Regarding Claim 5, Yumoto also discloses, “the method of claim 3, wherein said transmitting act further comprises the act of transmitting the RUI definition using a network based on at least one of IP (RFC 791), 3G NETBEUI, Bluetooth, Zigbee, SCP, IEC61883, DVB and ATSC DTV”. Specifically, Yumoto discloses in addition to the Internet, examples of the communication path 3 of this embodiment include networks such as a LAN (Local Area Network) and a PAN (Personal Area Network) in compliance with a predetermined communication protocol. Examples of such networks include Bluetooth, and wireless Ethernet defined by IEEE 802.11 (Yumoto, col 7, ln 33-40).

Regarding Claim 6, Yumoto also discloses, “the method of claim 5, wherein said transmitting act further comprises the act of transmitting the RUI definition using a protocol based on at least one of RDP, X- Windows, VNC, HTTP, HAVi DDI, and UI Fragments”. Specifically, Yumoto discloses in addition to the Internet, examples of the communication path 3 of this embodiment include networks such as a LAN (Local Area Network) and a PAN (Personal Area Network) in compliance with a predetermined

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communication protocol. Examples of such networks include Bluetooth, and wireless Ethernet defined by IEEE 802.11 (Yumoto, col 7, ln 33-40).

Regarding Claim 7, Yumoto also discloses, “the method of claim 5, wherein said receiving act further comprises the act of using by the at least one network device for the RUI definition a UI description format based on at least one of HTML, XML, Macromedia, Flash and Java”. Specifically, Yumoto discloses, Java, HTML, XML (Yumoto, col 14, ln 55-65).

Regarding Claim 8, Yumoto also discloses, “the method of claim 3, further comprising the act of sending the provided CUI to at least one of the at least one network device and a second control device”. Specifically, various types of electronic devices can be made to serve as control devices and devices to be controlled. Furthermore, the contents of the conversion-into-remote-controller data created by the device are changed adaptively according to the input operation function of the control device (Yumoto, col 17, ln 60-65). The examiner reads this as sharing the data and then changing it if necessary.

Regarding Claim 9, Yumoto also discloses, “the method of claim 7, further comprising the act of transmitting a RUI definition by at least a second network device to the control device using at least one of a different protocol selected from the set consisting of RDP, X-Windows, VNC, HTTP, HAVi DDI, and UI Fragments and a

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different UI description format selected from the group consisting of HTML, XML, Macromedia, Flash and Java than the corresponding protocol and description format used by the at least one network device". Specifically, Yumoto discloses in addition to the Internet, examples of the communication path 3 of this embodiment include networks such as a LAN (Local Area Network) and a PAN (Personal Area Network) in compliance with a predetermined communication protocol. Examples of such networks include Bluetooth, and wireless Ethernet defined by IEEE 802.11 (Yumoto, col 7, ln 33-40). Yumoto also discloses, Java, HTML, XML (Yumoto, col 14, ln 55-65). Various types of electronic devices can be made to serve as control devices and devices to be controlled (Yumoto, col 17, ln 60-65). Finally, multiple devices can be used as control devices as well as network devices (Yumoto, Fig 1).

Regarding Claim 10, Yumoto also discloses, "the method of claim 1, wherein: the RUI and CUI comprise at least one RUI component and at least one CUI component, respectively; and further comprising the acts of extracting said at least one RUI component by the control device". Specifically, Yumoto discloses in step S208, the cellular phone receives the conversion-into-remote-controller data (Yumoto, col 17, ln 10-15).

Yumoto does not specifically disclose, "determining by the control device if said at least one CUI component is the synonym for the extracted at least one RUI component; and wherein, said mapping act further comprises the act of if said at least one CUI component is determined to be the synonym for the extracted at least one RUI

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component, mapping the at least one extracted RUI component to the determined said at least one CUI component”. However, Friedman remedies this with the disclosure of a database for storing canonical user interface descriptions. This database is used to construct user interfaces for a Universal Console (Friedman, ¶0027). It would be obvious to one of ordinary skill in the art to add this database to the universal control device of Yumoto. The motivation to do so would be so the UC device 200 is capable of recognizing both the action-commands to which the device responds including parameters and as well as the decisions, selections, and input the user needs to provide for the UC 200 to determine which action-commands to send and the values of the action-command parameters (Friedman, ¶0030).

Regarding Claim 11, Yumoto does not specifically disclose, “the method of claim 10, further comprising the act of finding at least one CUI component that satisfies a predetermined similarity measure to said at least one RUI 15 component for a plurality of network devices”. The canonical database However, Friedman remedies this with the disclosure of a database for storing canonical user interface descriptions. This database is used to construct user interfaces for a Universal Console (Friedman, ¶0027). It would be obvious to one of ordinary skill in the art to add this database to the universal control device of Yumoto. The motivation to do so would be so the UC device 200 is capable of recognizing both the action-commands to which the device responds including parameters and as well as the decisions, selections, and input the user needs

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to provide for the UC 200 to determine which action-commands to send and the values of the action-command parameters (Friedman, ¶0030).

Regarding Claim 12, Yumoto does not specifically disclose, “the method of claim 10, further comprising the act of finding at least one CUI component that satisfies a predetermined consistency measure of the mapped at least one RUI component”. However, Friedman remedies this with the disclosure of a database for storing canonical user interface descriptions. This database is used to construct user interfaces for a Universal Console (Friedman, ¶0027). It would be obvious to one of ordinary skill in the art to add this database to the universal control device of Yumoto. The motivation to do so would be so the UC device 200 is capable of recognizing both the action-commands to which the device responds including parameters and as well as the decisions, selections, and input the user needs to provide for the UC 200 to determine which action-commands to send and the values of the action-command parameters (Friedman, ¶0030).

Regarding Claim 13, Yumoto does not specifically disclose, “the method of claim 10, wherein said determining act further comprises the act of searching at least one of a thesaurus and a synonym database for a synonym of the extracted at least one RUI component that matches said at least one CUI component”. However, Friedman remedies this with the disclosure of a database for storing canonical user interface descriptions. This database is used to construct user interfaces for a Universal Console

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(Friedman, ¶0027). It would be obvious to one of ordinary skill in the art to add this database to the universal control device of Yumoto. The motivation to do so would be so the UC device 200 is capable of recognizing both the action-commands to which the device responds including parameters and as well as the decisions, selections, and input the user needs to provide for the UC 200 to determine which action-commands to send and the values of the action-command parameters (Friedman, ¶0030).

Regarding Claim 14, Yumoto does not specifically also disclose, “the method claim 13, further comprising the act of storing said matching synonym determined from the thesaurus in the synonym database for the extracted at least one RUI component”. However, Friedman remedies this with the disclosure of a database for storing canonical user interface descriptions. This database is used to construct user interfaces for a Universal Console (Friedman, ¶0027). If it is found to be matching using the synonym database then it must already be in the synonym database. It would be obvious to one of ordinary skill in the art to add this database to the universal control device of Yumoto. The motivation to do so would be so the UC device 200 is capable of recognizing both the action-commands to which the device responds including parameters and as well as the decisions, selections, and input the user needs to provide for the UC 200 to determine which action-commands to send and the values of the action-command parameters (Friedman, ¶0030).

Regarding Claim 15, Yumoto also discloses, “the method of claim 14 wherein said at least one thesaurus is located on a second network and said at least one network device is located on a first network”. Specifically, Yumoto discloses in addition to the Internet, examples of the communication path 3 of this embodiment include networks such as a LAN (Local Area Network) and a PAN (Personal Area Network) in compliance with a predetermined communication protocol. Examples of such networks include Bluetooth, and wireless Ethernet defined by IEEE 802.11 (Yumoto, col 7, ln 33-40).

Regarding Claim 16, Yumoto also discloses, “the method of claim 15, wherein said second network is the Internet”. Specifically, Yumoto discloses in addition to the Internet, examples of the communication path 3 of this embodiment include networks such as a LAN (Local Area Network) and a PAN (Personal Area Network) in compliance with a predetermined communication protocol. Examples of such networks include Bluetooth, and wireless Ethernet defined by IEEE 802.11 (Yumoto, col 7, ln 33-40).

Regarding Claim 17, Yumoto also discloses, “the method of claim 15, wherein said first network is a home network and said network device is a consumer electronic device”. Specifically, Yumoto discloses consumer electronic devices (Yumoto, Fig 1).

Regarding Claim 18, Yumoto also discloses, “the method of claim 1, wherein said at least a part of the CUI is determined according to a set of user preferences”.

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Specifically, the cell phone contains a ROM in which various types of data are set by the user (Yumoto, col 9, ln 5-8).

Regarding Claim 19, Yumoto also discloses, “the method of claim 1, wherein: said at least one network device further comprises at least one application local to the control device and said RUI further comprises at least one local user interface (LUI) to said at least one local application”. Specifically, the cell phone has a local user interface (Yumoto, col 8, ln 22-31).

Regarding Claim 20, Yumoto also discloses, “the method of claim 10, wherein: said at least one network device further comprises at least one application local to the control device and said RUI further comprises at least one local user interface (LUI) to said at least one local application”. Specifically, the cell phone has a local user interface (Yumoto, col 8, ln 22-31).

Regarding Claim 21, Yumoto also discloses, “a method for a slave network device to replace a remote user interface (RUI) with a consistent user interface (CUI), comprising the acts of: transmitting by the slave network device the RUI to a control network device”. Specifically, Yumoto discloses in step S208, the cellular phone 1 receives the conversion-into-remote-controller data (Yumoto, col 17, ln 10-15).

Yumoto also discloses, “replacing by the control network device at least a part of the transmitted RUI with at least a part of the consistent CUI by the method of claim 1”.

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Specifically, after the function is switched to the tuner in the process of step S205 in the above-described manner, in the process of step S206, conversion-into-remote-controller data for the GUT corresponding to the function of the tuner is created (Yumoto, col 16, ln 60-65).

Regarding Claim 22, Yumoto also discloses, “a control device that provides a consistent user interface (CUI) in a network of at least one slave device having a remote user interface (RUI), comprising: a transceiver for receiving the RUI”. Specifically, the control device is connected to the network through an interface such a Bluetooth (Yumoto, Fig3, Fig 4: 20).

Yumoto also discloses, “an extraction logic module configured to extract at least one component of the RUI”. Specifically, in this case, since the device to be controlled is an audio component device, a button image for operating this audio component device, control information for layout for displaying this button image on the display section, and information for defining how to operate the button image are incorporated to form application data (Yumoto, col 14 , ln 11-20).

Yumoto also discloses, “an analysis and transformation module configured to map the extracted at least one component of the RUI to a component of the CUI according at least one of the synonyms stored in said database and a thesauri by replacing the RUI with at the at least one of the synonyms that matches the RUI”. Specifically, the conversion-into-remote-controller process is a processing sequence performed by the control device and the device to be controlled in cooperation in order

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that an electronic device serving as a control device is made to function as a remote controller capable of controlling a specific device to be controlled (Yumoto, col 11, ln 15-20).

Yumoto also discloses, "store the mapping in a memory". Specifically, the remote control application is stored in the memory (Yumoto, Fig 4: 24-24a).

Yumoto also discloses, "provide a user interface to the at least one slave device according to at least a part of the mapping of the extracted at least one component of the RUI". Specifically, Then, in the cellular phone 1, in the process of step S117, by using the received conversion-into-remote-controller data, a GUI used for an operation for remotely controlling the audio component device 2 is created (Yumoto, col 14, ln 50-55).

Yumoto also discloses, "wherein at least a part of the CUI that includes the at least one of the synonyms is displayed by the control device instead of the RUI as the user interface to the at least one slave device". Specifically, required operation can be performed on the GUI displayed on the display section by using operation keys provided in the main unit (Yumoto, col 6, ln 60-65).

Yumoto also discloses, "wherein the CUI is more consistent with the user interfaces of further slave devices so that the control device presents a user the user that includes the CUI for controlling at least one slave device and further slave devices". Figure 8 of Yumoto shows a consistent user interface for a remote user interface created by a remote control device that can be used to control various devices. Figure 9 is an example of GUT on the remote control device.

Yumoto does not specifically disclose, “a database that is configured to store synonyms of components of an RUI” or, “optionally update the synonym database with the mapping”. However, Friedman remedies this with the disclosure of a database for storing canonical user interface descriptions. This database is used to construct user interfaces for a Universal Console (Friedman, ¶0027). If it is found to be matching using the synonym database then it must already be in the synonym database. It would be obvious to one of ordinary skill in the art to add this database to the universal control device of Yumoto. The motivation to do so would be so the UC device 200 is capable of recognizing both the action-commands to which the device responds including parameters and as well as the decisions, selections, and input the user needs to provide for the UC 200 to determine which action-commands to send and the values of the action-command parameters (Friedman, ¶0030).

Regarding Claim 23, Yumoto also discloses, “the control device of claim 22, further comprising: at least one local user interface (LUI) to at least one local application”. Specifically, the cell phone has a local user interface (Yumoto, col 8, ln 22-31).

Yumoto also discloses, “wherein, said extraction logic module is further configured to extract at least one component of the LUI”. Specifically, the ability information is taken from the LUI. This ability information is information indicating the ability regarding the input operation, possessed by the cellular phone 1. In this case, examples of information on operation elements include the type of operation element,

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information indicating a number, and the size information of the number of pixels of the LCD of the display section 23 used for GUI operation. If such information contents are considered together, it is possible to understand the ability of the input operation function as the cellular phone 1 (Yumoto, col 13, ln 46-55).

Yumoto also discloses, “said analysis and transformation module is further configured to map the extracted at least one component of the LUI to a component of the CUI according to at least one of the synonyms of components of an LUI stored in said database and a thesauri”. Specifically, as a result of the analysis process in step S113, the ability of the input operation function of the cellular phone 1 is recognized (Yumoto, col 14, ln 4-10).

Yumoto also discloses, “provide a user interface to the at least one local application according to at least a part of the mapping of the extracted at least one component of the LUI”. Specifically, then, in step S114, application data for forming a GUI which can be realized by the cellular phone 1 within the range of this recognized ability is created (Yumoto, col 14, ln 4-10).

Yumoto does not specifically disclose, “said database is further configured to store synonyms of components of an LUI”. However, Friedman remedies this with the disclosure of a database for storing canonical user interface descriptions. This database is used to construct user interfaces for a Universal Console (Friedman, ¶0027). If it is found to be matching using the synonym database then it must already be in the synonym database. It would be obvious to one of ordinary skill in the art to add this database to the universal control device of Yumoto. The motivation to do so would

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be so the UC device 200 is capable of recognizing both the action-commands to which the device responds including parameters and as well as the decisions, selections, and input the user needs to provide for the UC 200 to determine which action-commands to send and the values of the action-command parameters (Friedman, ¶0030).

Regarding Claim 24, Yumoto also discloses, “the control device of claim 22, wherein said analysis and transformation module is further configured to: accept a set of user preferences and provide said at least a part of the mapping in accordance with the set of user preferences”. Specifically, the cell phone contains a ROM in which various types of data are set by the user (Yumoto, col 9, ln 5-8). An example is display data which is used when mapping the user interface (Yumoto, col 9, ln 5-8).

Regarding Claim 25, Yumoto also discloses, “the control device of claim 22, wherein the thesauri is accessed via another network”. Specifically, Yumoto discloses in addition to the Internet, examples of the communication path 3 of this embodiment include networks such as a LAN (Local Area Network) and a PAN (Personal Area Network) in compliance with a predetermined communication protocol. Examples of such networks include Bluetooth, and wireless Ethernet defined by IEEE 802.11 (Yumoto, col 7, ln 33-40).

Regarding Claim 26, Yumoto also discloses, “the control device of claim 25, wherein the another network is the Internet”. Specifically, Yumoto discloses in addition

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to the Internet, examples of the communication path 3 of this embodiment include networks such as a LAN (Local Area Network) and a PAN (Personal Area Network) in compliance with a predetermined communication protocol. Examples of such networks include Bluetooth, and wireless Ethernet defined by IEEE 802.11 (Yumoto, col 7, ln 33-40).

Regarding Claim 27, Yumoto also discloses, “the control device of claim 22, wherein the slave device is a consumer electronic device”. Specifically, Yumoto discloses consumer electronic devices (Yumoto, Fig 1).

Regarding Claim 28, Yumoto also discloses, “the control device claim 27, wherein the network is a home network”. Specifically, Yumoto discloses in addition to the Internet, examples of the communication path 3 of this embodiment include networks such as a LAN (Local Area Network) and a PAN (Personal Area Network) in compliance with a predetermined communication protocol. Examples of such networks include Bluetooth, and wireless Ethernet defined by IEEE 802.11 (Yumoto, col 7, ln 33-40).

Regarding Claim 29, Yumoto also discloses, “the control device of claim 22, wherein the network is a home network”. Specifically, Yumoto discloses in addition to the Internet, examples of the communication path 3 of this embodiment include networks such as a LAN (Local Area Network) and a PAN (Personal Area Network) in

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compliance with a predetermined communication protocol. Examples of such networks include Bluetooth, and wireless Ethernet defined by IEEE 802.11 (Yumoto, col 7, ln 33-40).

Regarding Claim 30, Friedman discloses, “the control device of claim 22, wherein the mapping includes determining a pre-set synonym CUI component for the extracted at least one component of the RUI, and replacing the extracted at least one component of the RUI with the pre-set synonym CUI component by the control device whenever the control device displays a user interface for controlling the at least one slave device”. Specifically, Friedman discloses a database for storing canonical user interface descriptions. This database is used to construct user interfaces for a Universal Console (Friedman, ¶0027). The canonical UI descriptions adheres to an abstract format to describe in high-level terms the functionality of the device’s UI (Friedman, ¶0029). It would be obvious to one of ordinary skill in the art to add this database to the universal control device of Yumoto. The motivation to do so would be so the UC device 200 is capable of recognizing both the action-commands to which the device responds including parameters and as well as the decisions, selections, and input the user needs to provide for the UC 200 to determine which action-commands to send and the values of the action-command parameters (Friedman, ¶0030).

Regarding Claim 31, Friedman also discloses, “the control device of claim 23, wherein a synonym is used for the mapping is a synonym used in the LUI”. Specifically,

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Friedman discloses a database for storing canonical user interface descriptions. This database is used to construct user interfaces for a Universal Console (Friedman, ¶0027). The canonical UI descriptions adheres to an abstract format to describe in high-level terms the functionality of the device's UI (Friedman, ¶0029). It would be obvious to one of ordinary skill in the art to add this database to the universal control device of Yumoto. The motivation to do so would be so the UC device 200 is capable of recognizing both the action-commands to which the device responds including parameters and as well as the decisions, selections, and input the user needs to provide for the UC 200 to determine which action-commands to send and the values of the action-command parameters (Friedman, ¶0030).

(10) Response to Argument

Friedman and Yumoto do disclose the “mapping the RUI [of at least one network device] to the CUI by the control device by replacing the RUI [of at least one network device] with a synonym that matches the RUI, the synonym being included in the synonym database”.

Yumoto discloses that the conversion-into-remote-controller process is a processing sequence performed by the control device and the device to be controlled in cooperation in order that an electronic device serving as a control device is made to function as a remote controller capable of controlling a specific device to be controlled (Yumoto, col 11, ln 15-20). Since it is the control device that creates and displays the

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GUI ("CUI") (Yumoto, Fig6:117), it is clear that the mapping is performed by the control device.

According to the Merriam-Webster Dictionary, a synonym is one of two or more words or expressions of the same language that have the same or nearly the same meaning in some or all senses, or a word or phrase that by association is held to embody something. Also, according to the Merriam-Webster Dictionary canonical description is a description that conforms to a general rule or acceptable procedure. Since a canonical description is an expression of the same language that has the same meaning or nearly the same meaning as the intended control, then it follows a canonical description is equivalent to synonym.

Since we have established that a synonym is equivalent to the canonical descriptions of Friedman, we look to Friedman's disclosure to remedy the deficiency of Yumoto. Friedman remedies this deficiency with the disclosure of a database for storing canonical user interface descriptions. This database is used to construct user interfaces for a Universal Console (Friedman, ¶0027). It would be obvious to one of ordinary skill in the art to add this database to the universal control device of Yumoto. The motivation to do so would be so the UC device 200 is capable of recognizing both the action-commands to which the device responds including parameters and as well as the decisions, selections, and input the user needs to provide for the UC 200 to determine which action-commands to send and the values of the action-command parameters (Friedman, ¶0030).

Finally, using a synonym to describe an equivalent control in a universal remote is well known in the art. An example would be a universal remote that uses the term "on" instead of the term "power" for the control that powers on a TV or vice versa. Therefore, this limitation is met by the references and the examiner respectfully disagrees with the applicant.

Friedman and Yumoto also disclose the “displaying by the control device at least a part of the CUI that includes the synonym instead of the RUI as a user interface to the network device, wherein the CUI is more consistent with user interfaces of further network devices so that the control device presents a user the user interface that includes the CUI for controlling the network device and the further devices”.

Yumoto discloses that in the cellular phone 1, in the process of step S117, by using the received conversion-into-remote-controller data, a GUI used for an operation for remotely controlling the audio component device 2 is created (Yumoto, col 14,ln 50-55). This shows us that the CUI is displayed on the remote device. Since the conversion into remote controller data is used in forming the GUI in Yumoto and the canonical descriptions are used to describe in high level terms the functionality of the device's UI in Friedman (Friedman, ¶0029), it follows that CUI or the Universal Control GUI uses synonyms.

Figure 8 of Yumoto shows a consistent user interface for a remote user interface created by a remote control device that can be used to control various devices. Figure

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9 is an example of GUT on the remote control device. Yumoto controls further devices and this limitation is clearly met by the combination of Yumoto and Friedman.

Therefore, the examiner respectfully disagrees with the applicant.

(11) Related Proceeding(s) Appendix

No decision rendered by a court or the Board is identified by the examiner in the Related Appeals and Interferences section of this examiner's answer.

For the above reasons, it is believed that the rejections should be sustained.

Respectfully submitted,

/Ashraf Zahr/

Examiner, Art Unit 2175

Conferees:

/TING LEE/

Primary Examiner, Art Unit 2173

/William L. Bashore/

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